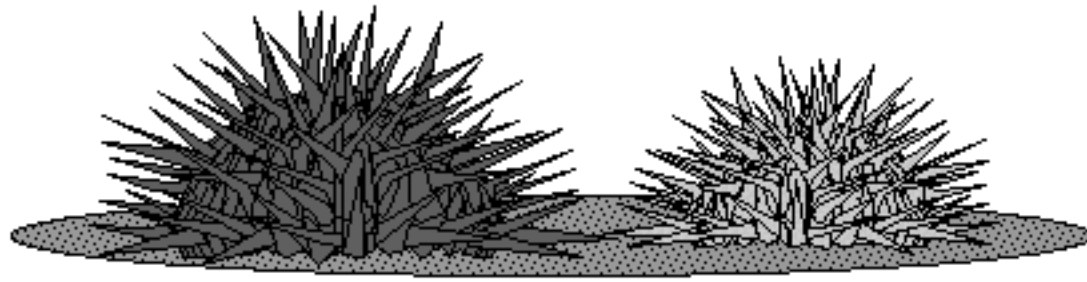
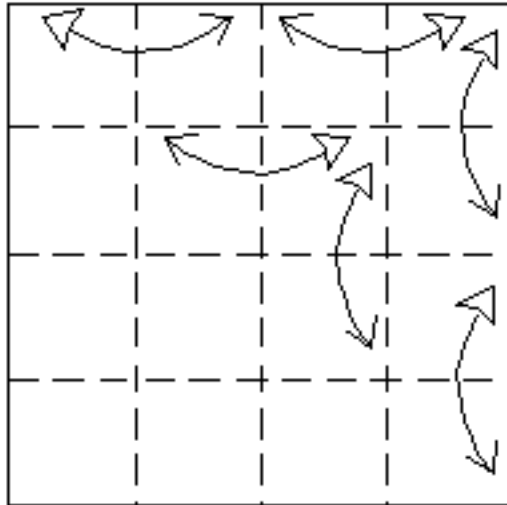
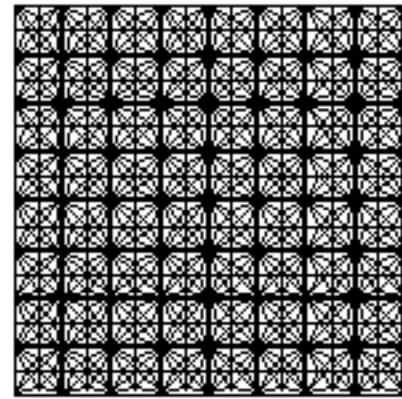


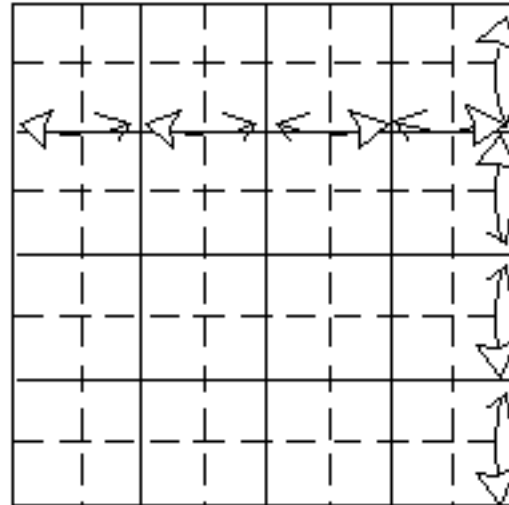
# Pacific Giant Red Sea Urchin



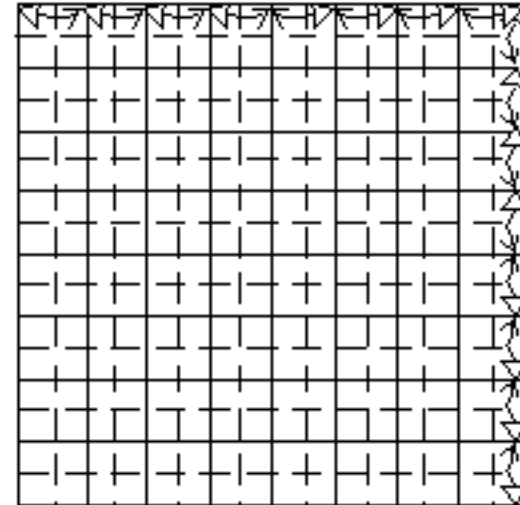
Based on Robert J. Lang's "Atlantic Purple Sea Urchin".  
Use paper that doesn't tear easily, or use foil-backed paper.  
Use a square measuring at least 30 inches (75 cm) to a side.  
Begin with the white side up.



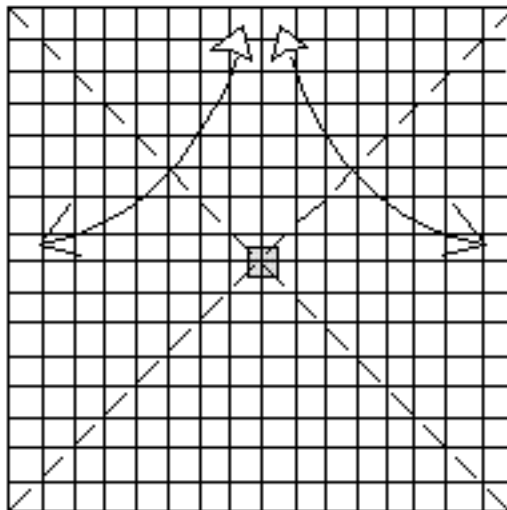
**1.** Crease the paper into fourths vertically and horizontally.



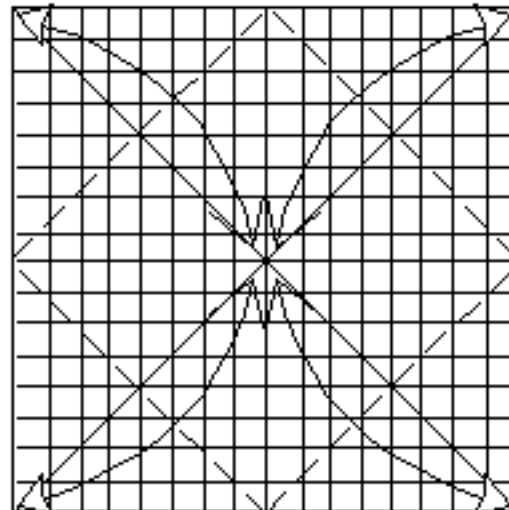
**2.** Crease the paper into eights vertically and horizontally.



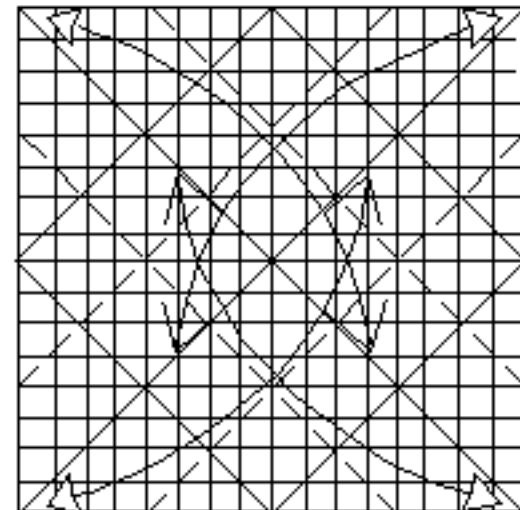
**3.** Crease the paper into sixteenths vertically and horizontally.



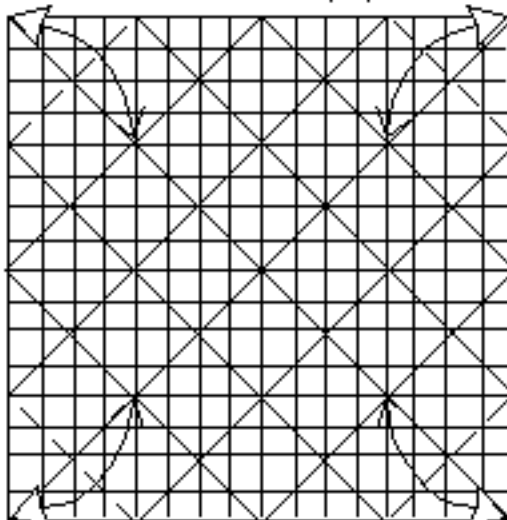
**4.** Crease the diagonals. For extra safety, put a piece of tape at the center of the paper.



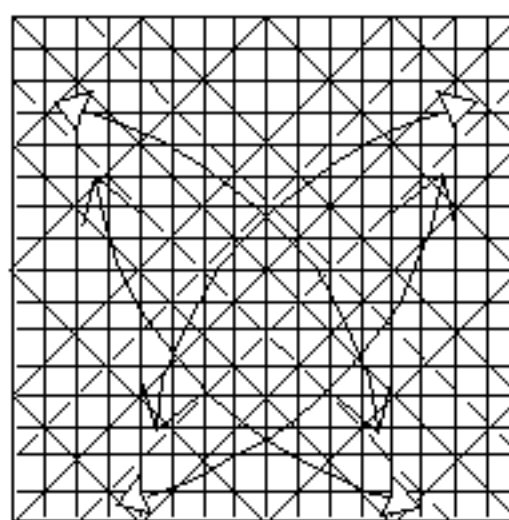
**5.** Bring the corners to the center, crease, and unfold.



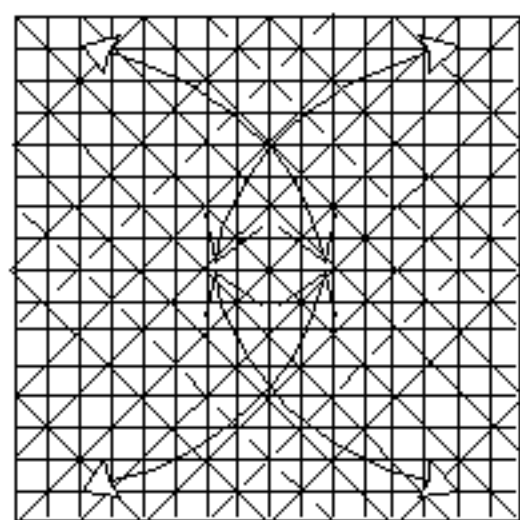
**6.** Add more diagonal creases.



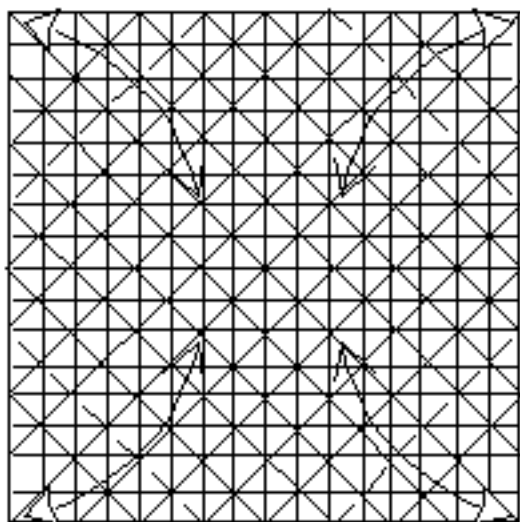
**7.** And more.



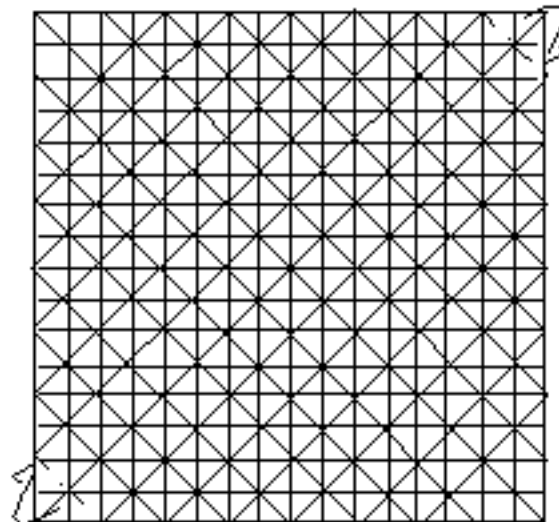
**8.** And more.



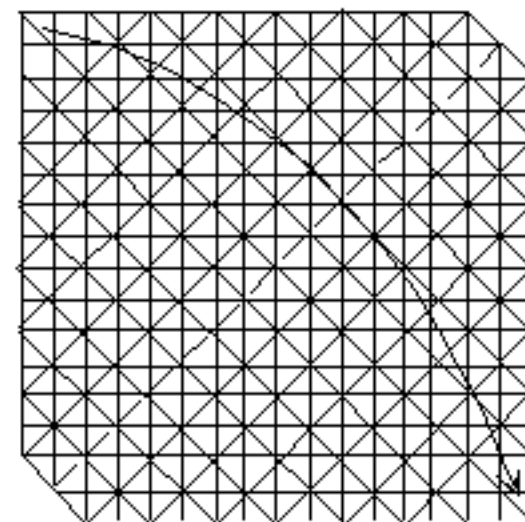
**9.** And more.



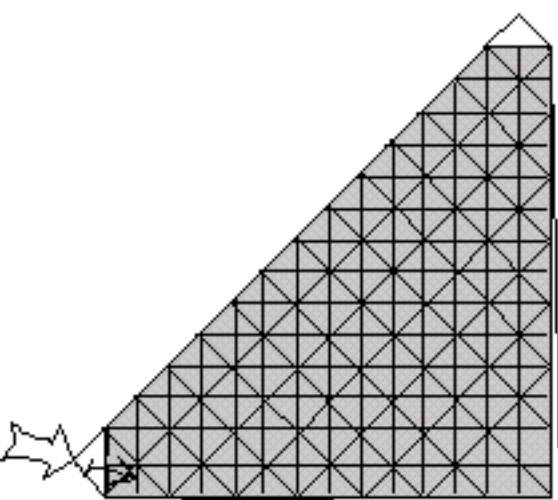
**10.** And more.



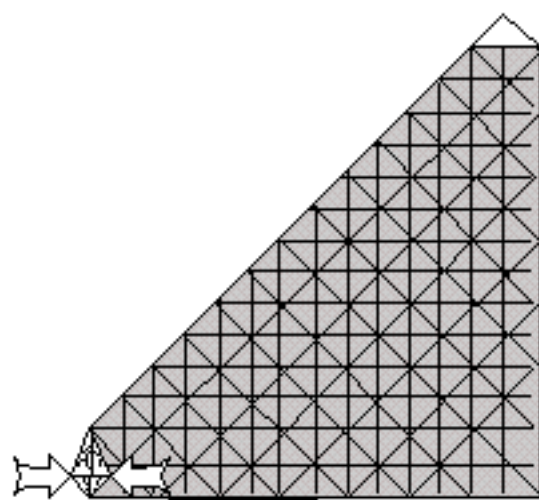
**11.** Mountain-fold two opposing corners behind.



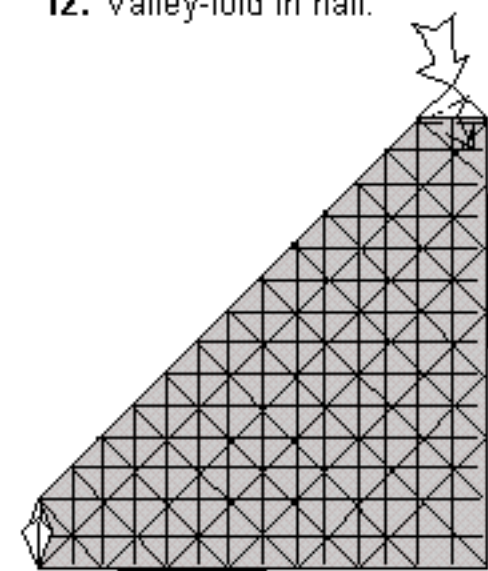
**12.** Valley-fold in half.



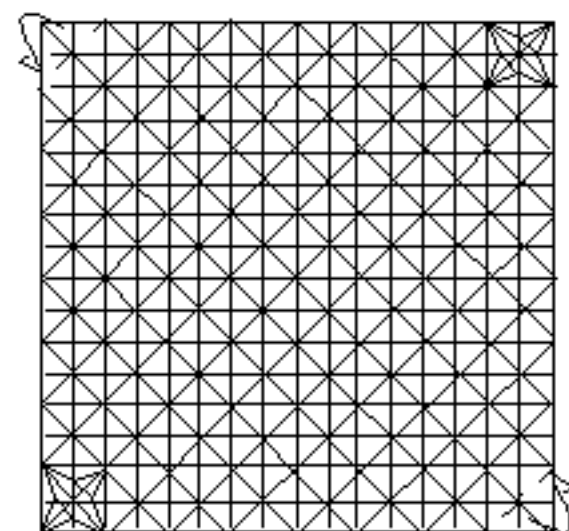
**13.** Squash-fold.



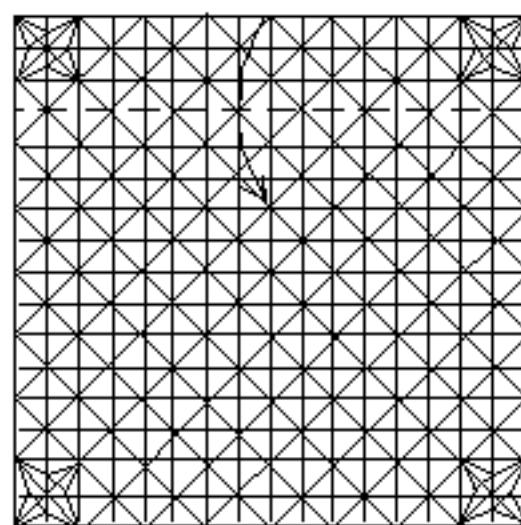
**14.** Petal-fold.



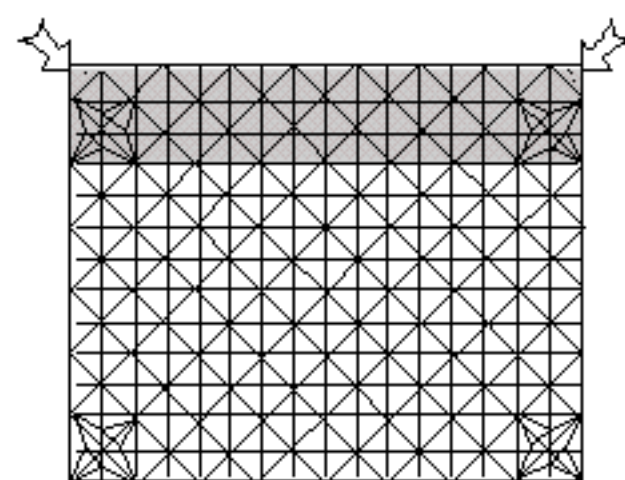
**15.** Repeat steps 13 - 14 on the top corner and unfold to step 11.



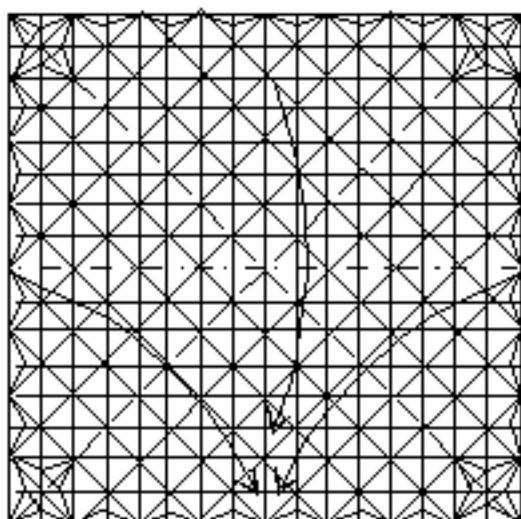
**16.** Repeat steps 11 - 15.



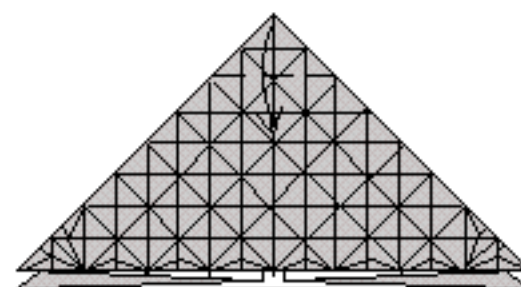
**17.** Valley-fold.



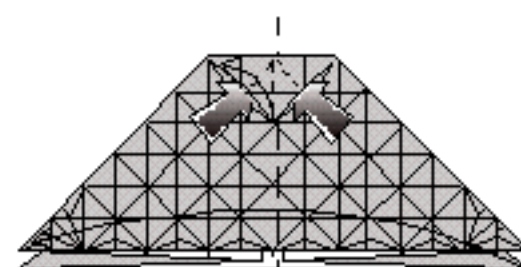
**18.** Reverse-fold along angle bisectors and unfold completely. Repeat on all similar places along the edges of the square.



**19.** Precreasing complete. Fold a Waterbomb Base.

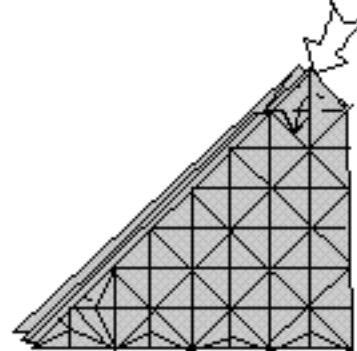


**20.** Valley-fold.

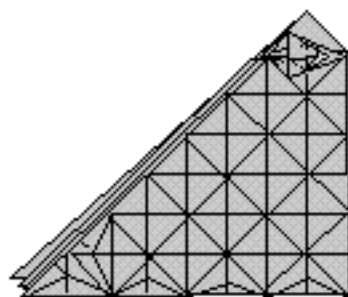


**21.** Open up on both sides of the top corner and fold the right side of the model over to the left.

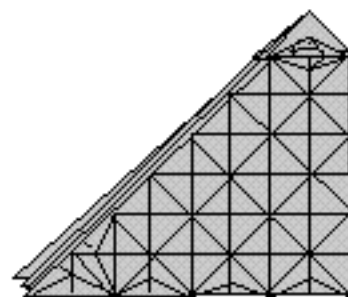




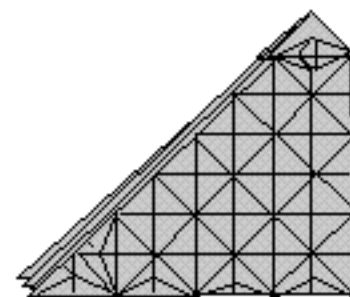
**22.** Squash-fold.



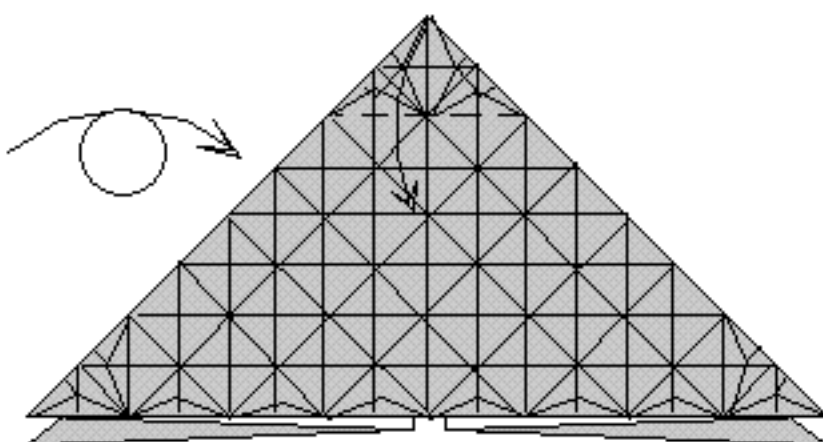
**23.** Petal-fold.



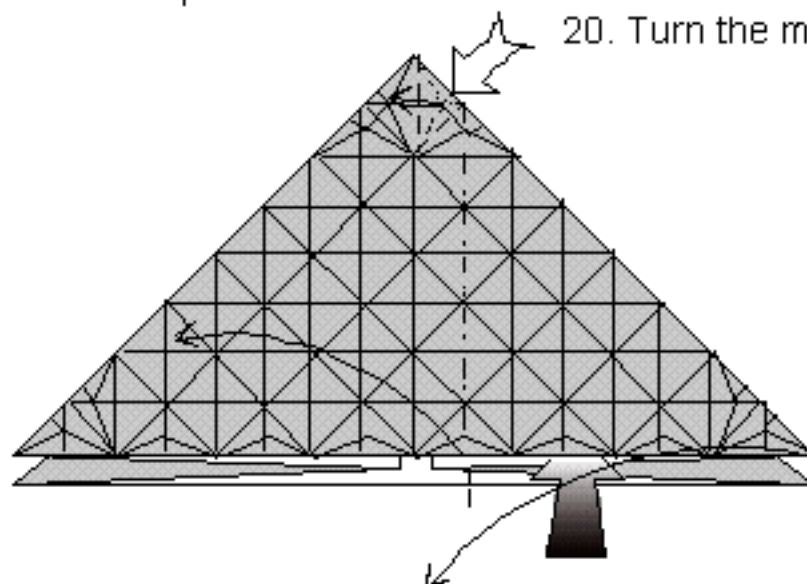
**24.** Valley-fold the flap to the left.



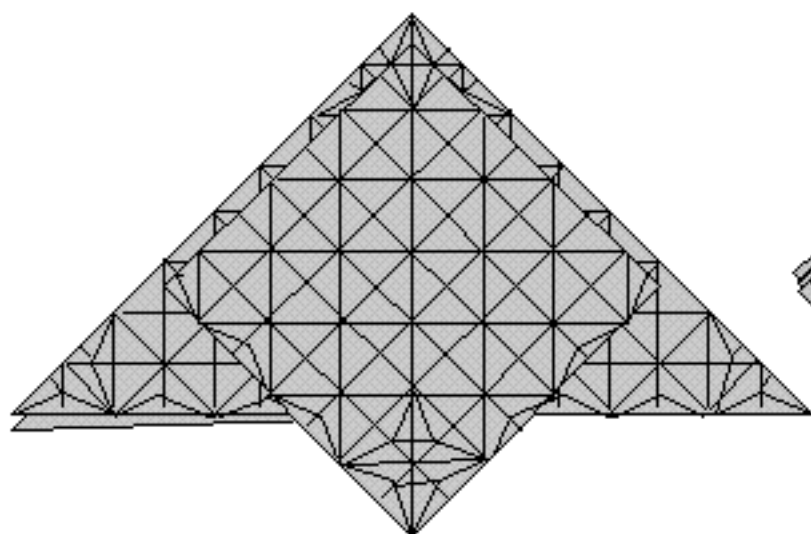
**25.** Repeat steps 22 - 24 behind and unfold to step 20. Turn the model over.



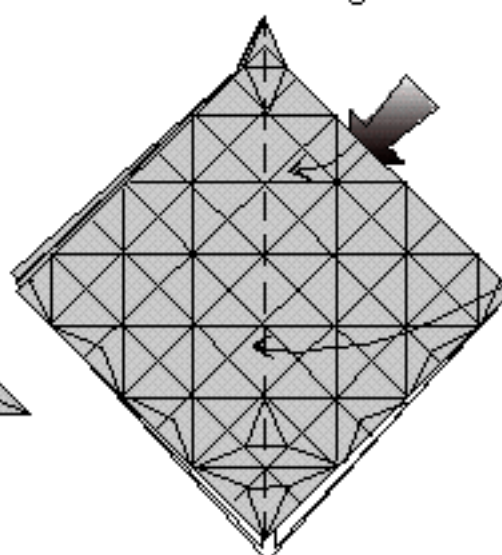
**26.** Repeat steps 20 - 25.



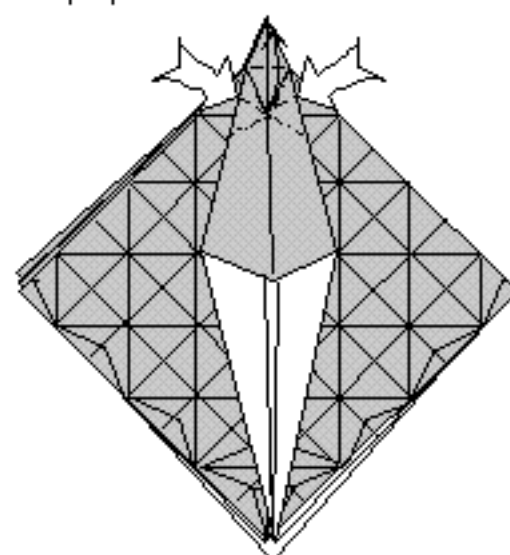
**27.** Lift one flap at the left side and collapse on existing creases. The paper will not lie flat.



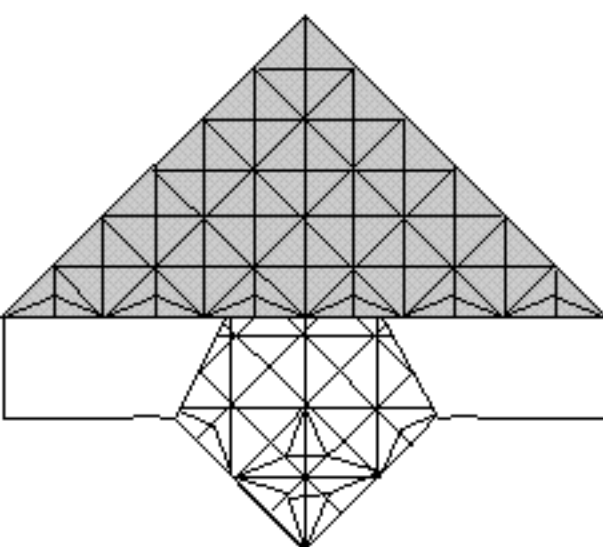
**28.** Repeat step 27 on the three other flaps.



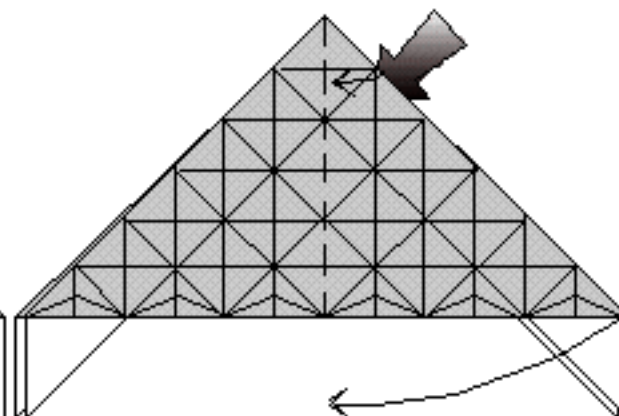
**29.** Swing one edge to the left. Inside, book-fold one of the small edges to the left.



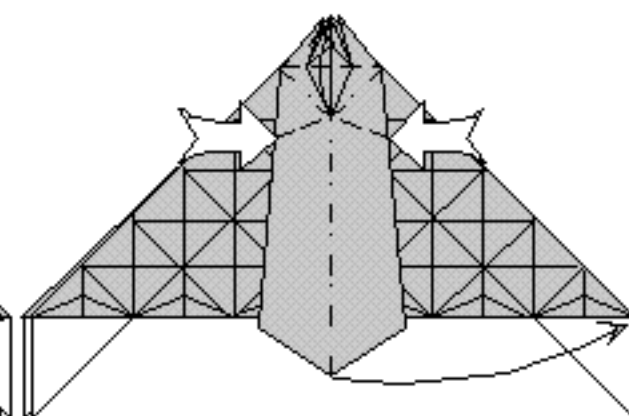
**30.** Closed-sink the corner to the top and collapse on existing creases. The model will not lie completely flat.



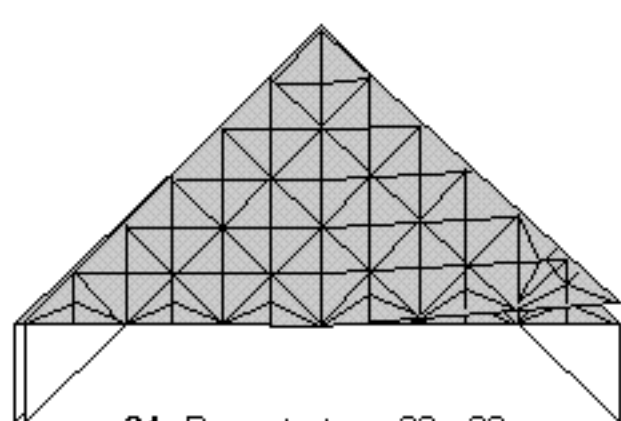
**31.** Repeat steps 29 - 30 on the three similar flaps.



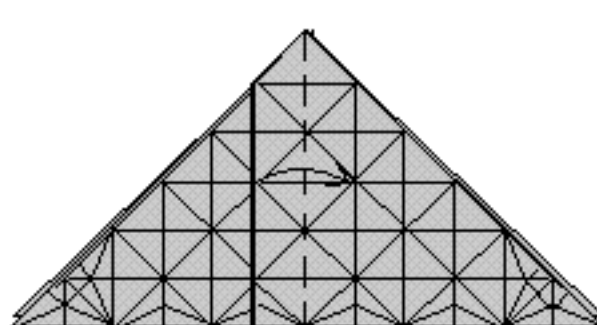
**32.** Repeat step 29.



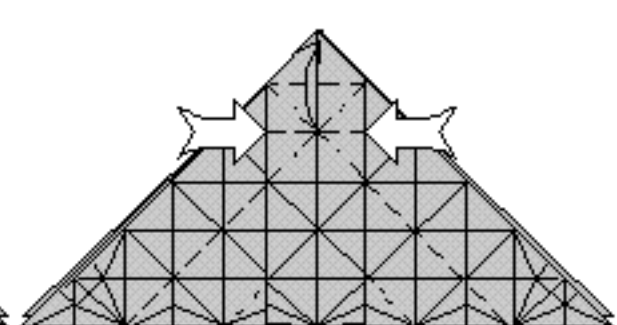
**33.** Closed-sink the corner up as in step 30, and collapse on existing creases.



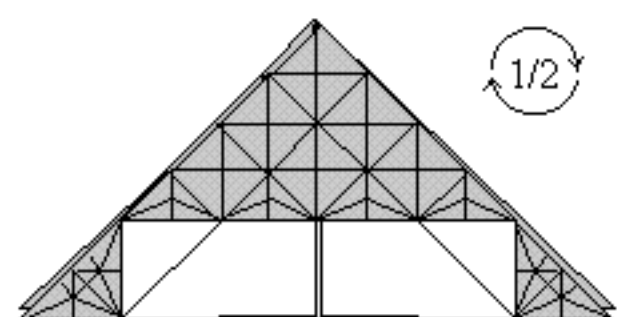
**34.** Repeat steps 32 - 33 on the three similar flaps.



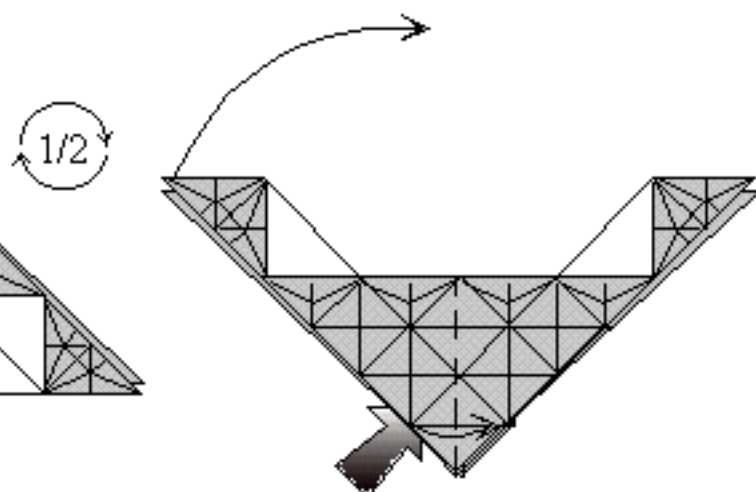
**35.** Book-fold one edge to the right.



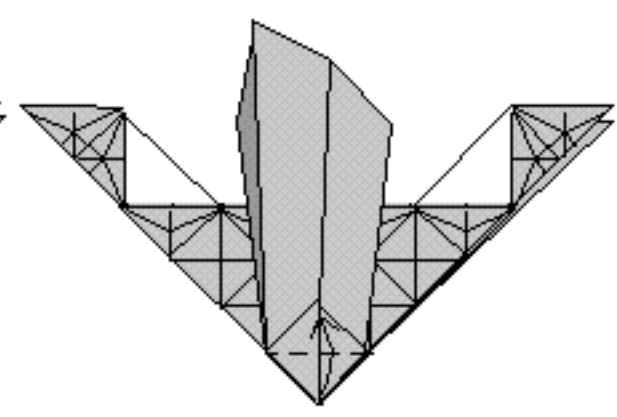
**36.** Push in the sides and collapse on existing creases.



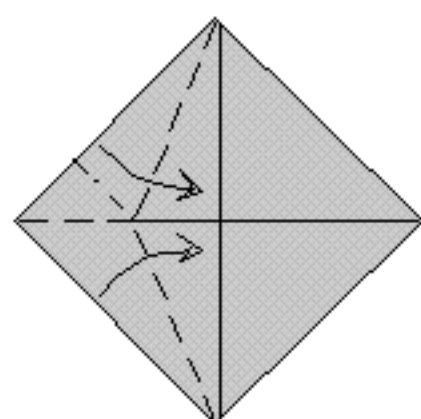
**37.** Repeat steps 35 - 36 on the three similar places. Then rotate the model 1/2 turn clock-wise.



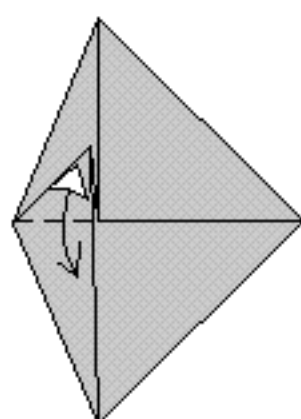
**38.** Lift one large flap and fold the bottom of the right edge to the right.



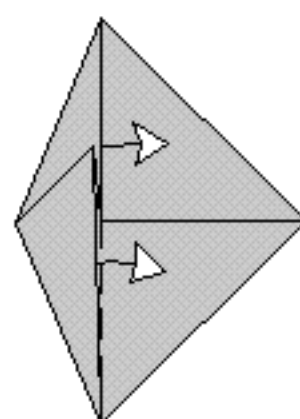
**39.** Valley-fold one triangular flap upward.



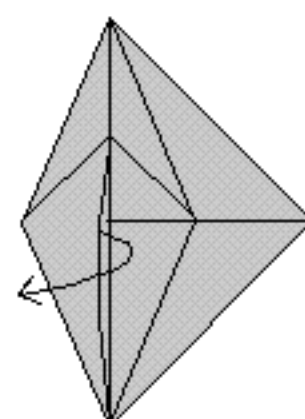
**40.** Enlarged view of the bottom corner. Fold a rabbit ear.



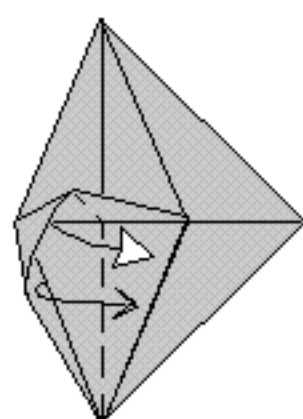
**41.** Fold and unfold several times.



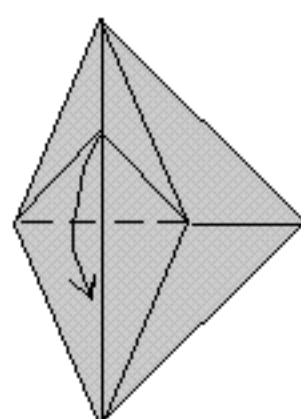
**42.** Pull a single layer of paper out from inside the rabbit ear.



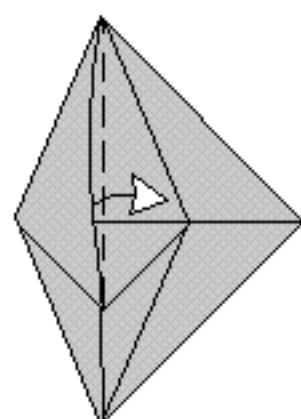
**43.** Open out the pocket slightly.



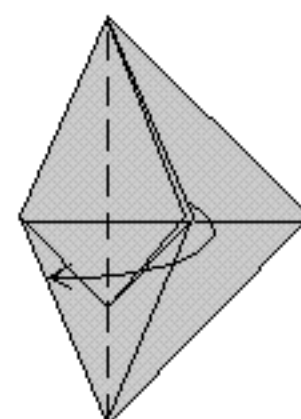
**44.** Pull all the edges out from inside the pocket, turning a layer inside-out as you go.



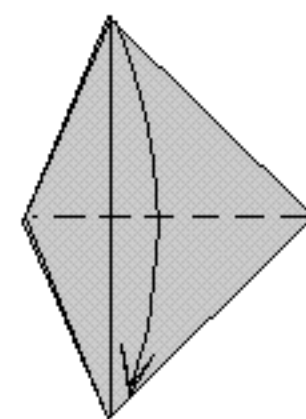
**45.** Fold the point down.



**46.** Repeat steps 43- 44 on the top.

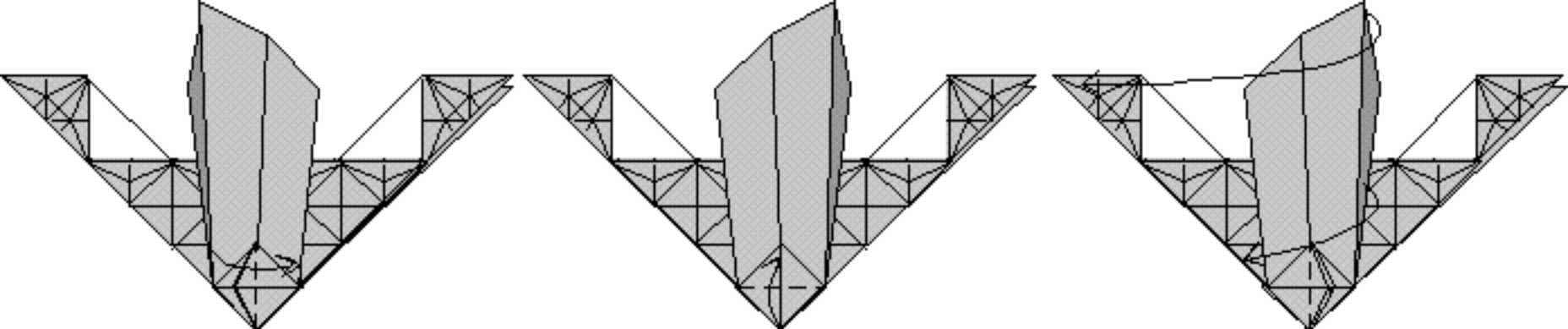


**47.** Fold all of the layers to the left.



**48.** Fold the loose point down.

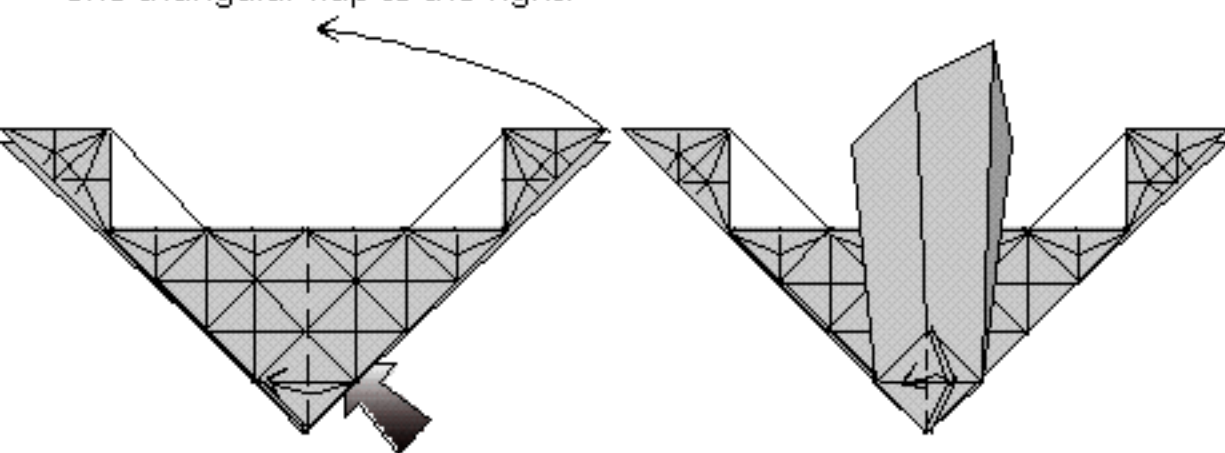




**49.** Fold one long edge and then one triangular flap to the right.

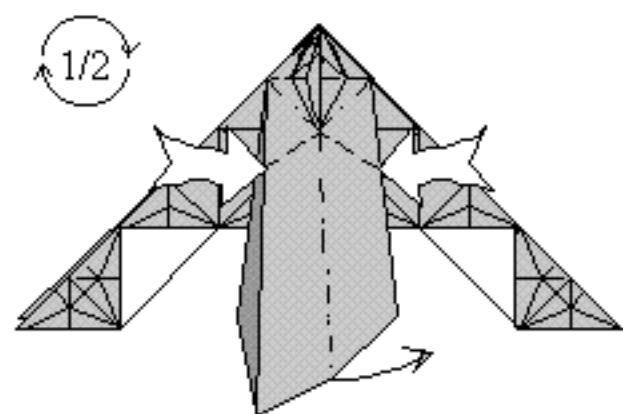
**50.** Repeat steps 39 - 48.

**51.** Swing the large flap back to the left and flatten.

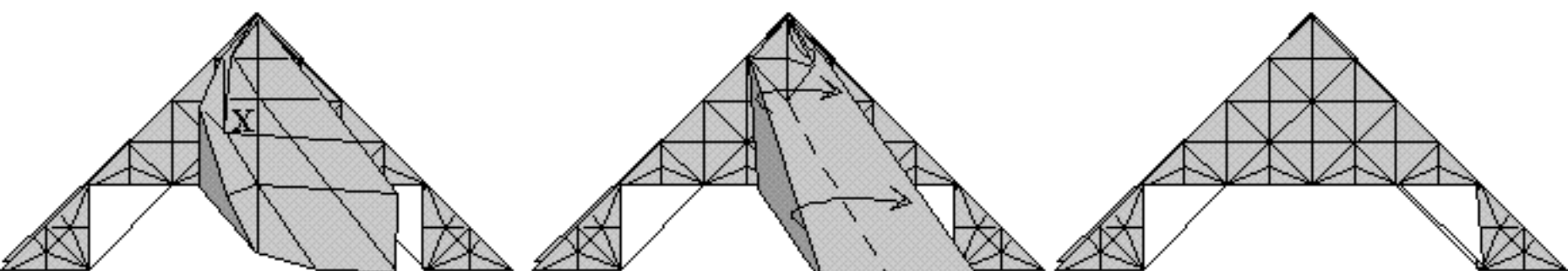


**52.** Repeat steps 38 - 51 on two large flaps and 38 - 50 on the third.

**53.** Fold one small flap to the left. Then rotate the model 1/2 turn.



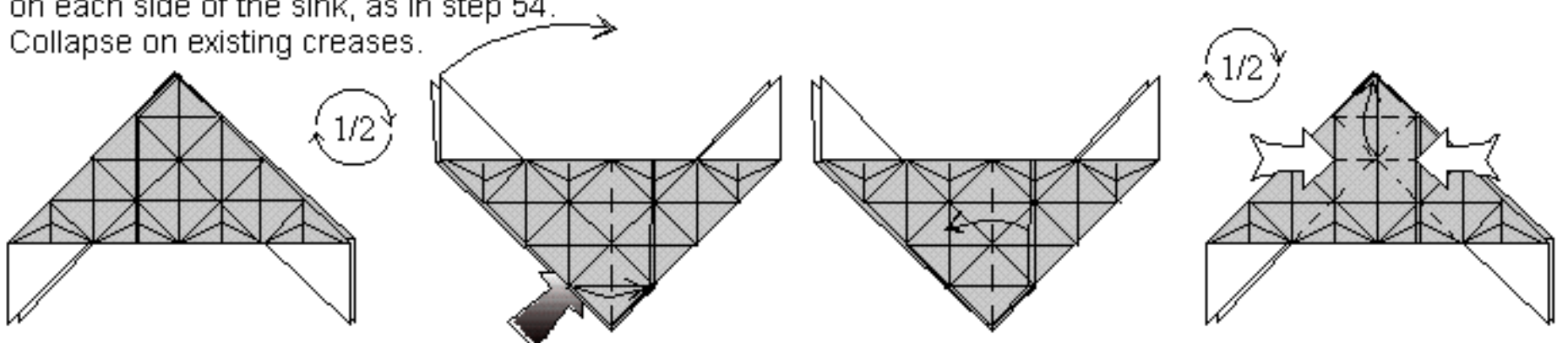
**54.** Closed-sink the corner to the top and collapse on existing creases. The model will not lie flat.



**55.** Open out from the inside the paper marked X. Simultaneously, closed-sink the corner underneath it upward, as in step 54. The two small flaps should be on each side of the sink, as in step 54. Collapse on existing creases.

**56.** Like this. Fold the flap to the right.

**57.** Repeat steps 53 - 56 on the three other flaps.

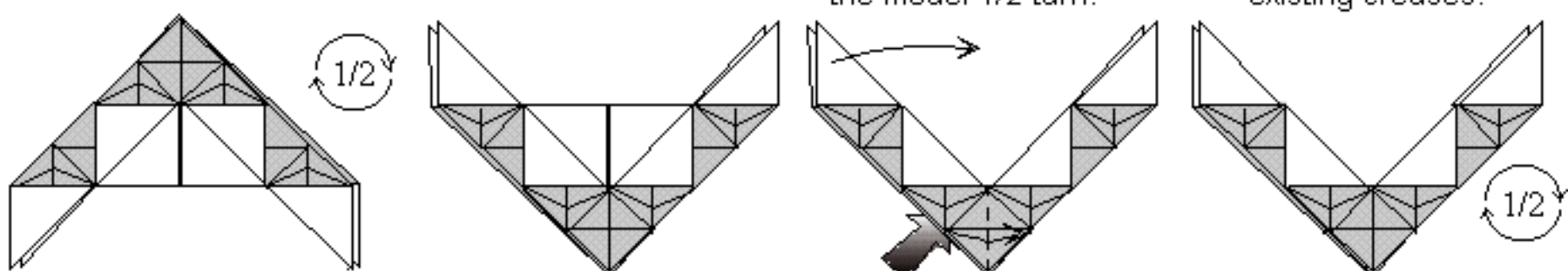


**58.** Rotate the model 1/2 turn.

**59.** Repeat steps 38 - 48 + 51 on all four flaps.

**60.** Book-fold one edge to the left. Then rotate the model 1/2 turn.

**61.** Push in the sides and collapse on existing creases.

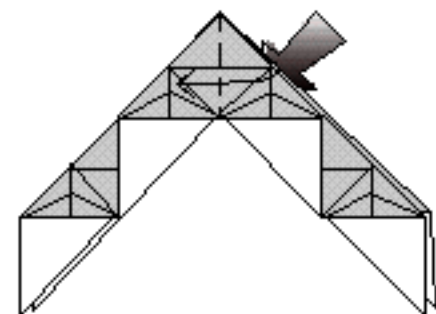


**62.** Rotate the model 1/2 turn.

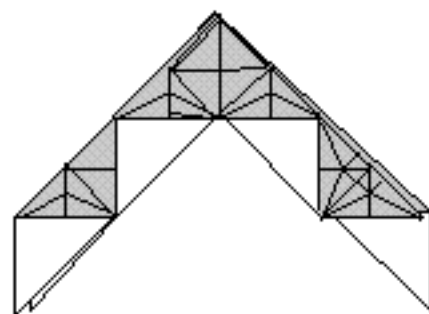
**63.** Repeat steps 60 - 62 on the three other sides.

**64.** Repeat steps 38 - 51 on all four flaps.

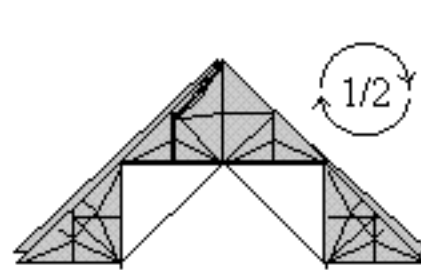
**65.** Rotate the model 1/2 turn.



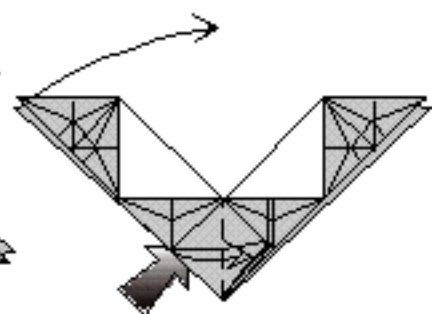
**66.** Valley-fold two 45° edges + one of the two small flaps inside to the left. Then repeat steps 54 - 56. Step 55 has to be done twice, one time on each side of the large flap.



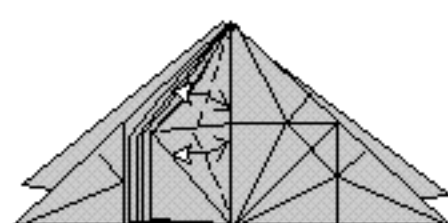
**67.** Repeat step 66 on the three other large flaps.



**68.** Rotate the model 1/2 turn.



**69.** Repeat steps 38 - 57! The model is now getting very thick. Be careful!!



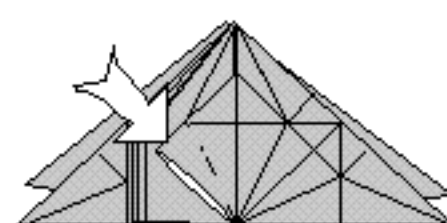
**70.** Crease the angle bisectors on the first of the four edges.



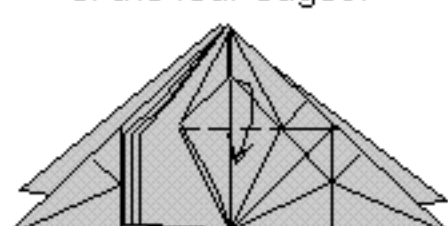
**71.** Squash-fold the edge, but flatten only its upper half.



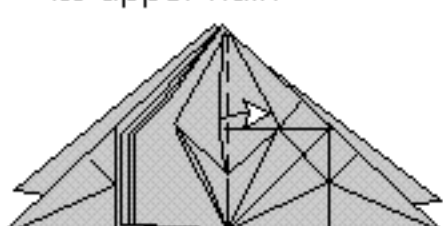
**72.** Pinch the sides of the lower part of the squash and swing the resulting flap to the left.



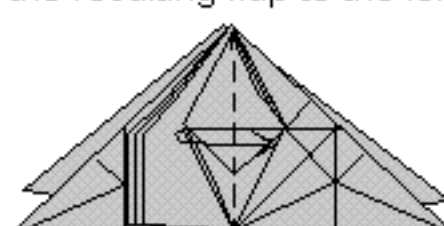
**73.** Reverse-fold the edge on existing creases.



**74.** Fold the point down.



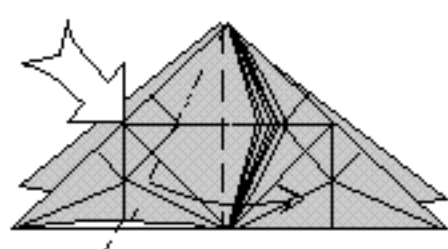
**75.** Pull all the folded edges out of the pocket as in step 46.



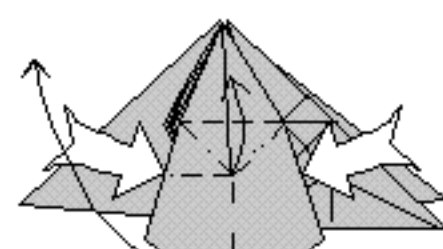
**76.** Fold all layers to the right.



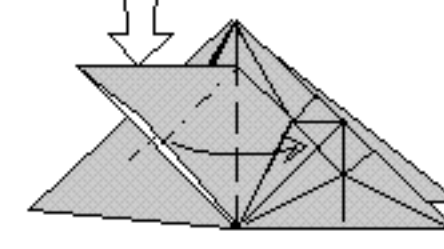
**77.** Repeat steps 70 - 76 on the 15 similar edges.



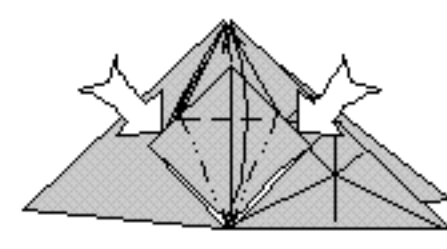
**78.** Squash-fold on existing creases, but flatten only the upper half.



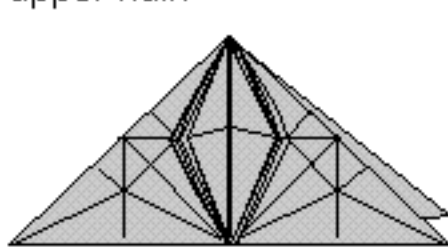
**79.** Pinch the lower edges of the squash-fold together and collapse on existing creases.



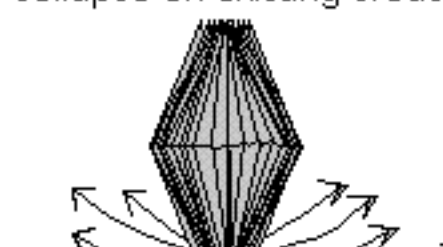
**80.** Squash-fold.



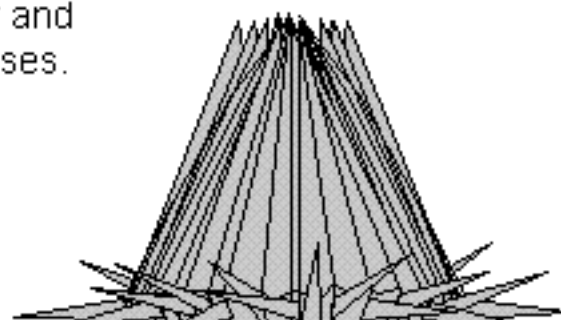
**81.** Petal-fold.



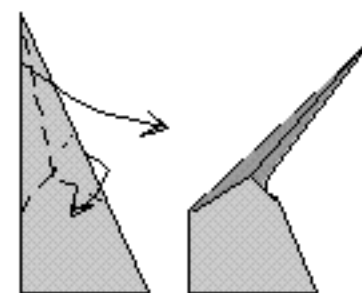
**82.** Repeat steps 78 - 81 on the three other flaps.



**83.** Reverse-fold the 28 points at the bottom outward and rabbit-ear each of them.



**84.** Rabbit-ear each of the 53 points at the top outward and adjust all 81 points to point in all directions. Then pinch all points to make them thinner.



**85.** Detail of a single point. Fold a rabbit ear.

**86.** Like this.



**87.** Pacific Giant Red Sea Urchin